



# NIAGARA SUMMIT 2026

SEAMLESS CONNECTIVITY,  
POWERFUL INTELLIGENCE

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2:00PM – 2:50PM | THURSDAY

# BUILDING BEST IN CLASS INTELLIGENT TODAY



TRIDIUM 

# SPEAKERS



**EMILY WEISENSALE**  
TRIDIUM | MODERATOR



**JON BRAY**  
NIAGARA MODS |  
PRESENTER



**AARON MASON**  
HAWKEYE ENERGY  
SOLUTIONS | PRESENTER

# ~9,900% ROI w/ UX

Well-sourced UX ROI data (from Forrester) suggests every \$1 invested in UX yields up to \$100 in return (~9,900% ROI overall)

Maze research shows UX improvements can increase customer retention by ~42%

## TODAY WE'LL COVER:

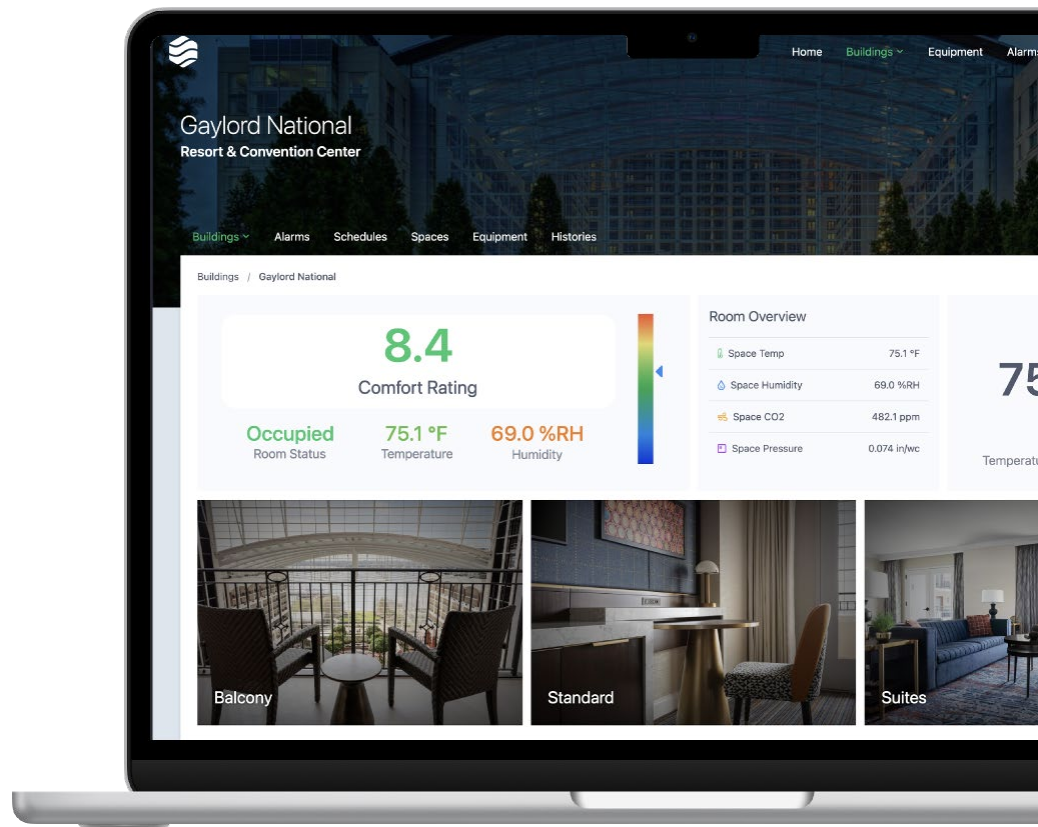
Responsive Design & Consistent Experience

Cognitive Load Management W/  
Contextual Information

Data-to-action Mapping

Actionable Data W/  
Personalization Capabilities

# APPLIED PRINCIPLES CREATES IMPACT.

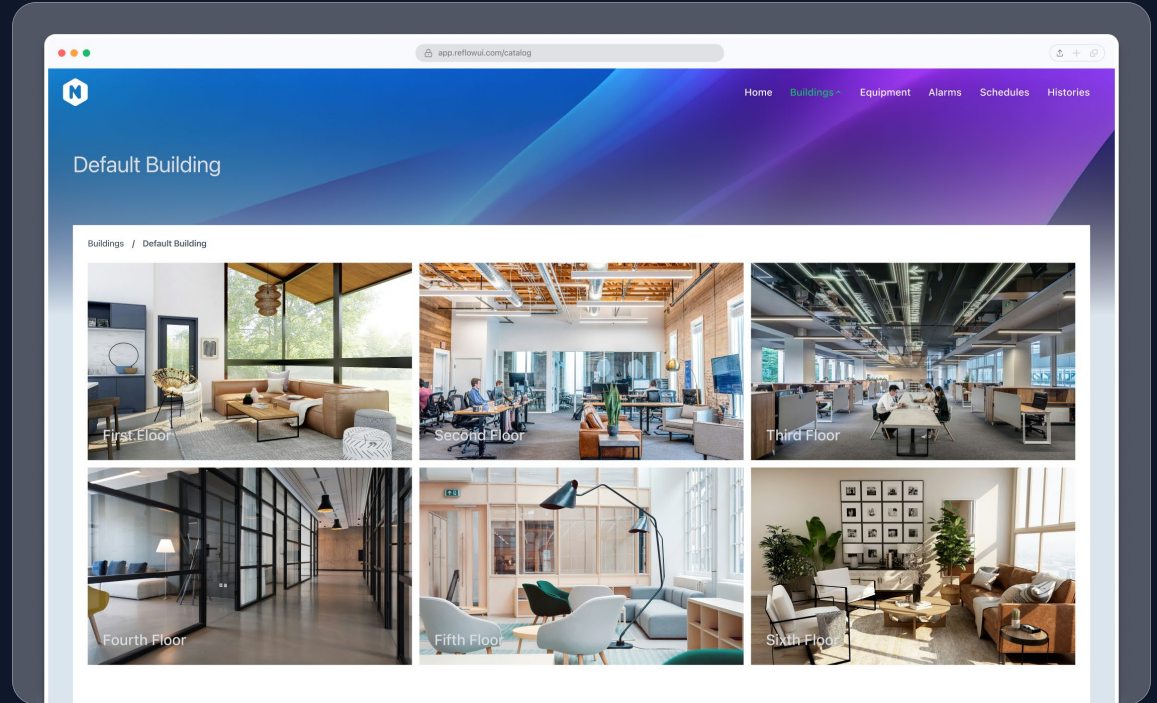


# One platform. Every screen. **Zero compromise.**

- Your operators don't sit at a desk, your UI shouldn't either
- Design once, deploy to desktop, tablet, and mobile. Identically
- A consistent interface means consistent decisions. Fewer errors, less retraining



**ROI — Operators move faster.**  
The experience is the same on  
the floor and in the control room.



# HOW MANY WORDS ARE ON THIS SCREEN?

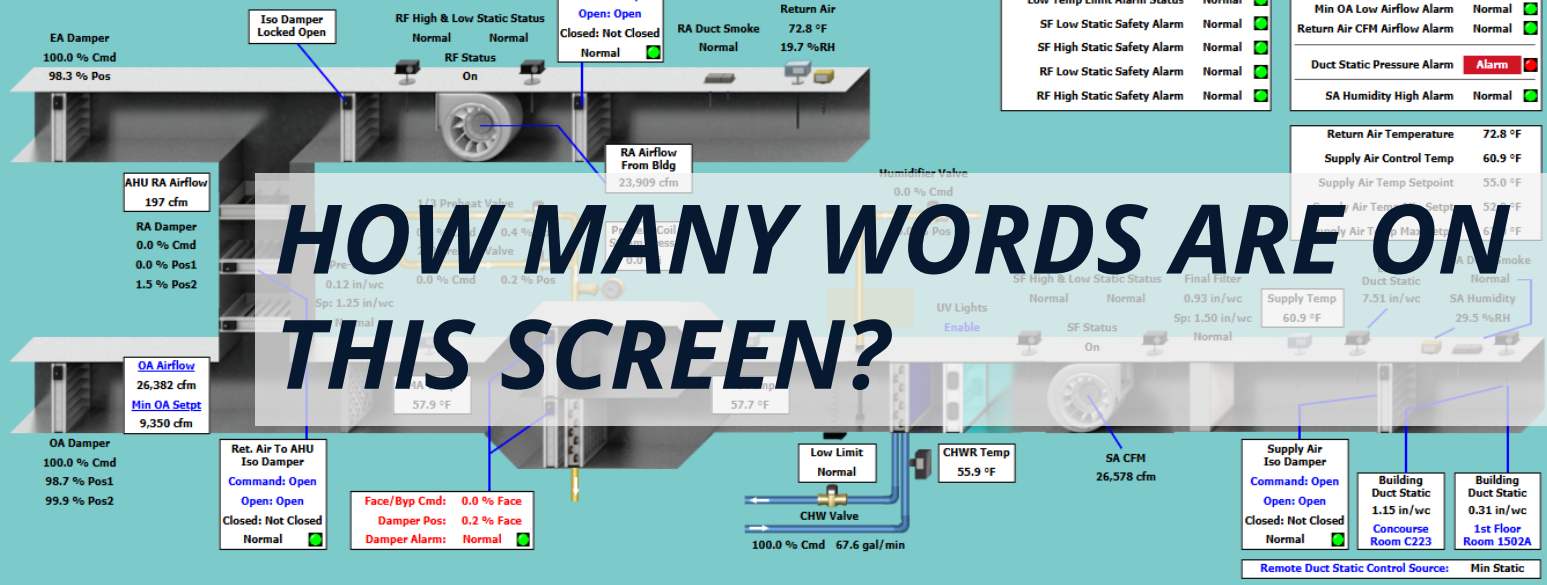
| AHU Control / Supply Fan Status / Return Fan Status |  |  |  |
|---|--|--|--|
| <b>Schedule:</b> Occupied                           | <b>SF S/S:</b> Start <span>🟢</span>        | <b>RF S/S:</b> Start <span>🟢</span>        |  |
| <b>Mode:</b> Occupied                               | <b>SF Status:</b> On <span>🟢</span>        | <b>RF Status:</b> On <span>🟢</span>        |  |
|   | <b>SF Run Fail:</b> Normal <span>🟢</span>  | <b>RF Run Fail:</b> Normal <span>🟢</span>  |  |
| <b>CHW Avail:</b> Available                         | <b>SF Stop Fail:</b> Normal <span>🟢</span> | <b>RF Stop Fail:</b> Normal <span>🟢</span> |  |
| <b>Fan Fail Reset:</b> false                        | <b>SF Speed:</b> 83.9 %                    | <b>RF Speed:</b> 98.4 %                    |  |

| UV Light Control           |                       |
|----------------------------|-----------------------|
| UV Light Command:          | Enable <span>🟢</span> |
| UV Lights AHU Door Status: | Closed <span>🟢</span> |

| Fans VFD Faults & Safety Alarms |                       |
|---------------------------------|-----------------------|
| Any AHU Safety Alarm Status     | Normal <span>🟢</span> |
| Fire Alarm Status               | Normal <span>🟢</span> |
| Supply Duct Smoke Status        | Normal <span>🟢</span> |
| Return Duct Smoke Status        | Normal <span>🟢</span> |
| Low Temp Limit Alarm Status     | Normal <span>🟢</span> |
| SF Low Static Safety Alarm      | Normal <span>🟢</span> |
| SF High Static Safety Alarm     | Normal <span>🟢</span> |
| RF Low Static Safety Alarm      | Normal <span>🟢</span> |
| RF High Static Safety Alarm     | Normal <span>🟢</span> |

| Temp, Humidity & Airflow Alarms |                       |
|---------------------------------|-----------------------|
| Supply Air Temp Low Alarm       | Normal <span>🟢</span> |
| Supply Air Temp High Alarm      | Alarm <span>🔴</span>  |
| Mixed Air Temp Low Alarm        | Normal <span>🟢</span> |
| Preheat DA Temp Low Alarm       | Normal <span>🟢</span> |
| Min OA Low Airflow Alarm        | Normal <span>🟢</span> |
| Return Air CFM Airflow Alarm    | Normal <span>🟢</span> |
| Duct Static Pressure Alarm      | Alarm <span>🔴</span>  |
| SA Humidity High Alarm          | Normal <span>🟢</span> |

| Fan Speed Control  |                 |
|--------------------|-----------------|
| Alarms             | Control Setpts  |
| Humidifier Control | Sup. & Ret Fans |



|                                |                       |
|--------------------------------|-----------------------|
| Supply Air Temp Current Setpt  | 55.0 °F               |
| Supply Air Temp Low Alarm      | Normal <span>🟢</span> |
| Supply Air Temp High Alarm     | Alarm <span>🔴</span>  |
| SA Temp Alarm Offset Setpt     | 5.0 °F                |
| Supply Air Temp Alarm Delay    | 10.0 min              |
| Mixed Air Temperature          | 57.9 °F               |
| Mixed Air Temp Low Alarm Sp    | 35.0 °F               |
| Mixed Air Temp Low Alarm       | Normal <span>🟢</span> |
| Mixed Air Temp Alarm Delay     | 5.0 min               |
| Preheat Coil DA Temperature    | 57.7 °F               |
| Preheat Low Temp Alarm Setpt   | 40.0 °F               |
| Preheat DA Temp Low Alarm      | Normal <span>🟢</span> |
| Preheat DA Temp Alarm Delay    | 60 s                  |
| Outside Air CFM Airflow        | 26,382 cfm            |
| Outside Air Min CFM Setpoint   | 9,350 cfm             |
| Outside Air Min CFM Low Alarm  | Normal <span>🟢</span> |
| CFM Airflow Alarm Offset       | 150,000 cfm           |
| CFM Airflow Alarm Delay        | 15.0 min              |
| Duct Static Pressure - Control | 0.26 in/wc            |
| Duct Static Pressure Setpoint  | 2.00 in/wc            |
| Duct Static Pressure Alarm     | Alarm <span>🔴</span>  |
| Duct Static Alarm Offset Setpt | 0.30 in/wc            |
| Supply Air Temp Alarm Delay    | 10.0 min              |
| Low Temp Limit Alarm           | Normal <span>🟢</span> |
| Fire Alarm Status              | Normal <span>🟢</span> |
| Supply Duct Smoke Status       | Normal <span>🟢</span> |
| Return Duct Smoke Status       | Normal <span>🟢</span> |
| SF Low Static Safety Alarm     | Normal <span>🟢</span> |
| SF High Static Safety Alarm    | Normal <span>🟢</span> |
| RF Low Static Safety Alarm     | Normal <span>🟢</span> |
| RF High Static Safety Alarm    | Normal <span>🟢</span> |

| AHU Valve & Economizer Allowed Status |             |
|---------------------------------------|-------------|
| Outside Air Temperature               | 57.2 °F     |
| CHW Available Status                  | Available   |
| CHW Valve OAT Enable Setpt            | 52.0 °F     |
| CHW Valve OAT Enable Status           | Allowed     |
| Preheat Heating Allowed OAT Setpt     | 50.0 °F     |
| Preheat Control OAT Enable Status     | Not Allowed |

| Economizer Damper Control       |            |
|---------------------------------|------------|
| AHU Supply Air Control Temp     | 60.9 °F    |
| Supply Air Temperature Setpoint | 55.0 °F    |
| OA CFM Airflow Min Signal Allow | Allowed    |
| OA CFM Airflow                  | 26,382 cfm |
| OA CFM Airflow Minimum Setpt    | 9,350 cfm  |
| OAD Minimum Signal Min Setpt    | 10.0 %     |

| Face / Bypass Dampers Control     |             |
|-----------------------------------|-------------|
| Preheat Heating Allowed OAT Setpt | 50.0 °F     |
| Preheat Control OAT Enable Status | Not Allowed |
| Preheat Heating Allowed Status    | Not Allowed |
| Steam Preheat Coil Controls       | Bldg Supply |
| Preheat Setpoint SA Setpt Offset  | 3.0 °F      |
| Preheat Control Curr. Temp Setpt  | 52.0 °F     |

| Preheat Coil Steam Pressure Control |           |
|-------------------------------------|-----------|
| Preheat Valves Enable Status        | Disable   |
| Preheat Coil Steam Pressure         | 0.0 psi   |
| Preheat Coil Steam Pressure Setpt   | 2.5 psi   |
| Preheat Coil 1/3 Valve Signal       | 0.0 % Cmd |
| Preheat Coil 2/3 Valve Signal       | 0.0 % Cmd |

| Supply & Return Fan Speed Control  |            |
|------------------------------------|------------|
| Local Duct Static Pressure @ AHU   | 7.51 in/wc |
| Duct Static Press High Limit Setpt | 7.50 in/wc |
| Duct Static Pressure - Building    | 0.31 in/wc |
| Duct Static Pressure Setpoint      | 2.00 in/wc |
| Supply Fan Speed Signal            | 83.9 %     |

| CHW Valve Control |                           |
|-------------------|---------------------------|
| CHW Valve         | 100.0 % Cmd, 67.6 gal/min |

# COGNITIVE LOAD MANAGEMENT WITH CONTEXTUAL INFORMATION

## Cognitive Load Management



Intrinsic  
Load



Extraneous  
Load



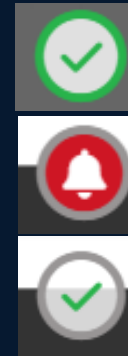
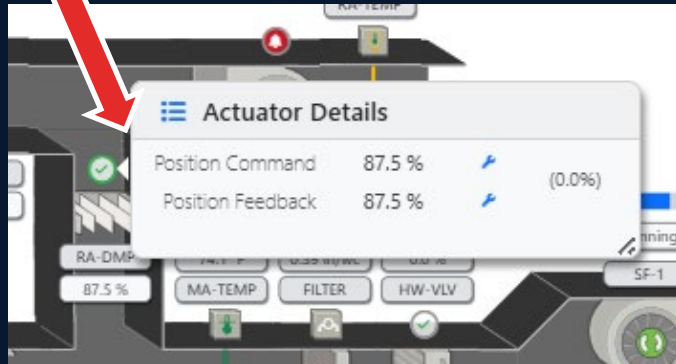
Germane  
Load

- Processing Limits
- Three Types of Load Management
- WHY This Matters
- DEMO of BoostPx/Layers

# BOOST PX – EQUIPMENT ICONS

| Equipment Status Icons |  |
|------------------------|--|
| Actuator               |  |
| Equipment              |  |
| Motor                  |  |
| Point                  |  |

- Collapse Information with Status ICONS

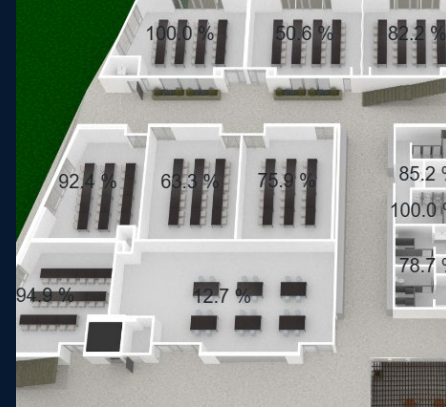
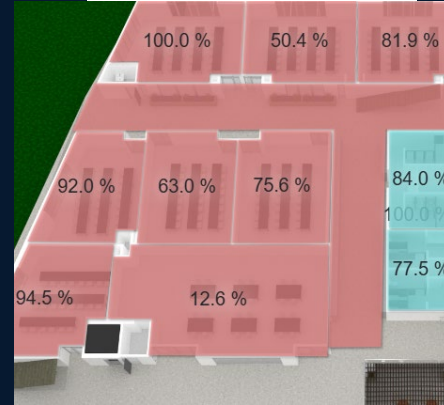
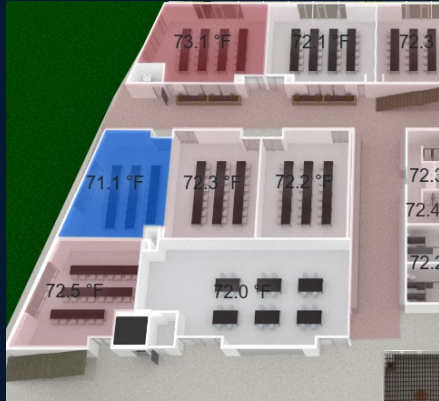
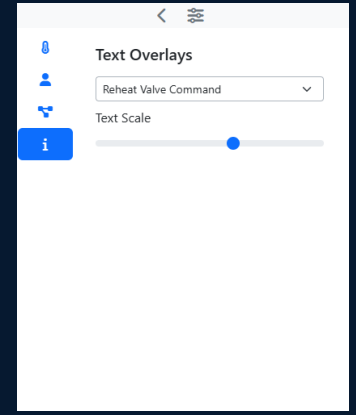
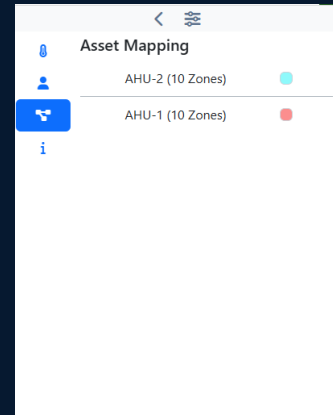
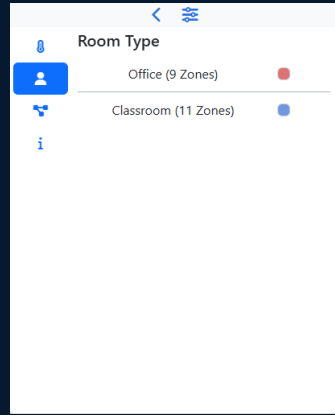
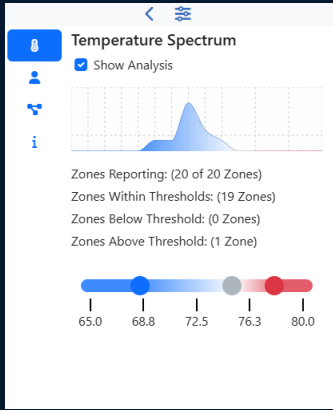


Running – Status Good

Off- Alarm

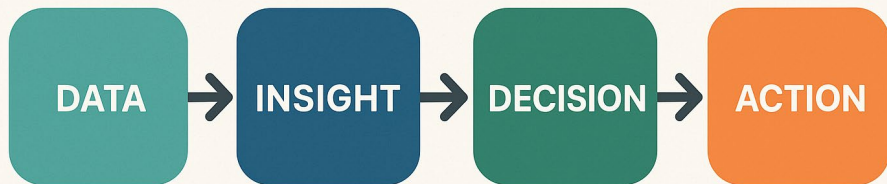
Off- Status Good

# LAYERS- USER DRIVEN LOAD MANAGEMENT



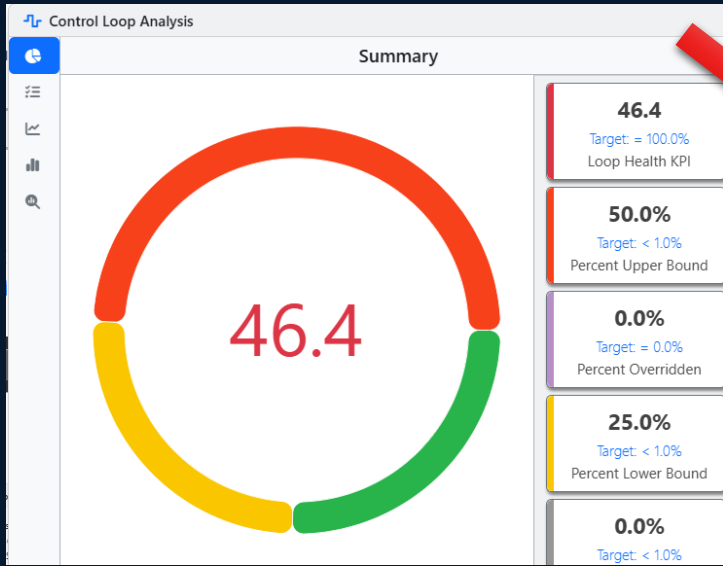
# DATA-TO-ACTION MAPPING

## DATA TO ACTION MAPPING



- Why do we look at Graphics?
- Value is derived from action
- Decision speed is important
- Demo Boost Px Widgets

# DATA TO ACTION MAPPING



Data - Insight

Decision - Action

Niagara Notes

- VAV-20 Not enough airflow  
North Campus / Small School / VAV-20
- AHU-1 (Task 002) AHU RF  
North Campus / Small School / AHU-1
- Small School Power disruption pl  
North Campus / Small School

Add a New Note

Selected Asset: AHU-1

Create as Task:

Subject: AHU 1 Supply Loop Hunting

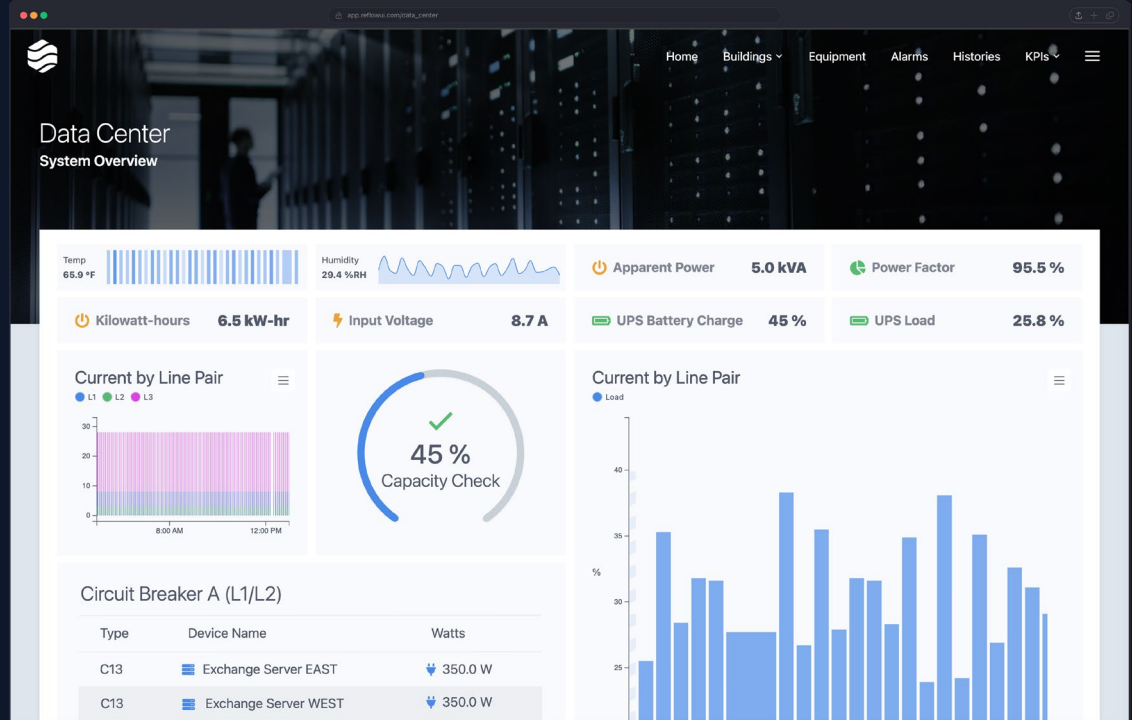
Details: Please tune this loop|

# The right data, for the right person, at the right moment.

- Deliver data when it matters. Contextual alerts, not constant noise, for every user type
- Tailor views by user and role — facilities managers, engineers, and executives all see what serves them
- Extend data beyond the UI into reports, automations, and integrations without rebuilding



**ROI — every role operates at peak efficiency they're never looking at someone else's view.**



**PUTTING IT ALL TOGETHER.**



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## **KEY TAKE-AWAYS:**

Consistency eliminates friction & accelerates adoption

Clarity drives faster, smarter decisions

Turn insight into immediate action

Tailor and extend data beyond the UI

# Q&A

